



创玮新材
CHUANGWEI NEW MATERIALS

Safety Data Sheet (SDS) for BCB Monomer (DVS-bis-BCB)

安全数据表 (SDS) - BCB 单体 (DVS-bis- BCB)

SECTION 1: Identification / 第一节：识别

Product Name: BCB Monomer (DVS-bis-BCB)

CAS Number: 117732-87-3

Synonyms: 1,3-Bis(2-(bicyclo[4.2.0]octa-1,3,5-trien-3-yl)vinyl)-1,1,3,3-tetramethyldisiloxane; Disiloxane, 1,3-bis(2-bicyclo[4.2.0]octa-1,3,5-trien-3-ylethenyl)-1,1,3,3-tetramethyl-

Molecular Formula: C₂₄H₃₀OSi₂

Molecular Weight: 390.67 g/mol

Recommended Use: Prepolymer for dielectric materials in microelectronics.

Supplier: Tianjin Chuangwei New Material Co., Ltd.

Emergency Contact: In case of emergency, contact local poison control or emergency

services.

产品名称： BCB 单体 (DVS-bis-BCB)

CAS 编号： 117732-87-3

同义词： 1,3-双(2-(双环[4.2.0]辛-1,3,5-三烯-3-基)乙烯基)-1,1,3,3-四甲基二硅氧烷；二硅氧烷,1,3-双(2-双环[4.2.0]辛-1,3,5-三烯-3-基乙烯基)-1,1,3,3-四甲基-

分子式： C₂₄H₃₀OSi₂

分子量： 390.67 g/mol

推荐用途： 用于微电子介电材料的预聚物。

供应商： 天津创玮新材料有限公司。

紧急联系： 紧急情况下，联系当地毒物控制中心或紧急服务。

SECTION 2: Hazard Identification / 第二节：危害识别

2.1 Classification / 分类

GHS Classification:

Eye Irritation - Category 2 (H319: Causes serious eye irritation); Skin Irritation - Category 2 (H315: Causes skin irritation); Flammable liquids, Category 3 (H226: Flammable liquid and vapor) - noted in related sources; Aspiration hazard, Category 1

(H304: May be fatal if swallowed and enters airways) - noted in some sources for similar compounds.

GHS分类：

眼睛刺激 - 类别2 (H319 : 引起严重眼睛刺激) ; 皮肤刺激 - 类别2 (H315 : 引起皮肤刺激) ; 易燃液体 , 类别3 (H226 : 易燃液体和蒸气) - 相关来源注明; 吸入危害 , 类别1 (H304 : 吞咽并进入呼吸道可能致命) - 某些来源注明用于类似化合物

。

2.2 Label Elements / 标签要素

Pictogram / 象形图: Exclamation mark (for irritation); Flame (for H226); Health hazard (for H304 if applicable).

Signal Word / 信号词: Warning (for irritation and H226); Danger (if H304 included).

Hazard Statements / 危害声明: H319 Causes serious eye irritation; H315 Causes skin

irritation; H226 Flammable liquid and vapor; H304 May be fatal if swallowed and enters airways (if applicable).

Precautionary Statements / 预防声明:

Prevention: P264 Wash skin thoroughly after handling; P280 Wear protective gloves/eye protection/face protection; P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking; P233 Keep container tightly closed; P240

Ground/bond container and receiving equipment; P241 Use explosion-proof equipment; P242 Use non-sparking tools; P243 Take action to prevent static discharges.

Response: P302+P352 IF ON SKIN: Wash with plenty of soap and water;

P332+P313 If skin irritation occurs: Get medical advice/attention;

P305+P351+P338 IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing; P337+P313 If eye irritation persists: Get medical advice/attention; P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower; P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish; P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor (for H304); P331 Do NOT induce vomiting (for H304).

Storage: P403+P235 Store in a well-ventilated place. Keep cool; P405 Store locked up (if H304).

Disposal: P501 Dispose of contents/container to an approved waste disposal plant.象形图：感叹号（针对刺激）；火焰（针对H226）；健康危害（针对H304，如果适用）。



信号词：警告（针对刺激和H226）；危险（如果包括H304）。

危害声明：H319 引起严重眼睛刺激；H315 引起皮肤刺激；H226 易燃液体和蒸气；H304 吞咽并进入呼吸道可能致命（如果适用）。

预防声明：

预防：P264 处理后彻底清洗皮肤；P280 佩戴防护手套/护目镜/面罩；P210 远离热源/火花/明火/高温表面。禁止吸烟；P233 保持容器密闭；P240 容器和接收设备接地/连接；P241 使用防爆设备；P242 使用不产生火花的工具；P243 采取措施防止静电放电。

响应：P302+P352 如果皮肤沾染：用大量肥皂和水清洗；P332+P313 如果发生皮肤刺激：寻求医疗建议/注意；P305+P351+P338 如果进入眼睛：用水小心冲洗几分钟。如果戴隐形眼镜并容易取下，取下隐形眼镜。继续冲洗；P337+P313 如果眼睛刺激持续

：寻求医疗建议/注意；P303+P361+P353 如果皮肤（或头发）沾染：立即脱去所有受污染的衣物。用水冲洗皮肤/淋浴；P370+P378 如发生火灾：使用干砂、干化

学品或耐醇泡沫灭火；P301+P310 如果吞咽：立即呼叫毒物中心/医生（针对H304）；P331 不要诱导呕吐（针对H304）。

储存：P403+P235 储存在通风良好的地方。保持低温；P405 储存时上锁（如果H304）。

处置：P501 将内容物/容器处置到经批准的废物处理厂。

2.3 Other Hazards / 其他危害

No data available on PBT/vPvB properties. No other hazards classified under HNOC.

Handle as a potential irritant.

无PBT/vPvB特性数据可用。无其他HNOC分类危害。将其作为潜在刺激物处理。

SECTION 3: Composition/Information on Ingredients / 第三节：成分/组成信息

3.1 Substances / 物质

Chemical Name: 1,3-Bis(2-(bicyclo[4.2.0]octa-1,3,5-trien-3-yl)vinyl)-1,1,3,3-tetramethyldisiloxane

Common Names: DVS-bis-BCB; BCB Monomer

CAS Number: 117732-87-3

Concentration: ≥80%

Impurities: No other known hazardous ingredients.

化学名称：1,3-双(2-(双环[4.2.0]辛-1,3,5-三烯-3-基)乙烯基)-1,1,3,3-四甲基二硅氧烷

常见名称：DVS-bis-BCB；BCB 单体

CAS编号：117732-87-3

浓度：≥80%

杂质：无其他已知有害成分。

SECTION 4: First Aid Measures / 第四节：急救措施

4.1 Description of First Aid Measures / 急救措施

描述General Advice: Show this SDS to the doctor.

If Inhaled: Move to fresh air. If breathing difficult, give oxygen; if not breathing, give artificial respiration. Consult a doctor.

In Case of Skin Contact: Take off contaminated clothing. Rinse skin with water/shower.

Consult a doctor if irritation persists.

In Case of Eye Contact: Rinse with plenty of water for at least 15 minutes. Remove contact lenses. Consult a doctor.

If Swallowed: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

一般建议：向医生出示本SDS。

如果吸入：移至新鲜空气处。如果呼吸困难，给氧；如果不呼吸，进行人工呼吸。咨询医生。

皮肤接触：脱去受污染衣物。用水/淋浴冲洗皮肤。如果刺激持续，咨询医生。
眼睛接触：用大量水冲洗至少15分钟。摘除隐形眼镜。咨询医生。

如果吞咽：用水漱口。不要诱导呕吐。切勿给无意识者口服任何东西。立即呼叫医生或毒物控制中心。

4.2 Most Important Symptoms/Effects / 最重要症状/影响

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. No additional data available.

最重要已知症状和影响见标签（第二节）和/或第十一节。无额外数据可用。

4.3 Indication of Immediate Medical Attention / 立即医疗

注意指示 No data available / 无数据可用。

SECTION 5: Fire-Fighting Measures / 第五节：消防措施

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide (CO₂), alcohol-resistant foam.

Unsuitable Extinguishing Media: Water (may react with silicon compounds).

Specific Hazards: May produce silicon dioxide, carbon oxides, and irritating fumes upon combustion.

Protective Equipment: Firefighters should wear self-contained breathing apparatus and full protective gear.

合适灭火介质：干化学粉末、二氧化碳 (CO₂)、耐醇泡沫。

不合适灭火介质：水（可能与硅化合物反应）。

特定危害：燃烧时可能产生二氧化硅、碳氧化物和刺激性烟雾。

防护设备： 消防员应戴自给式呼吸器和全套防护装备。

SECTION 6: Accidental Release Measures / 第六节： 意外泄漏措施

Personal Precautions: Wear appropriate PPE. Evacuate area and ensure ventilation.

Environmental Precautions: Prevent entry into drains or waterways.

Methods for Containment and Cleanup: Absorb with inert material (e.g., sand, vermiculite) and place in suitable containers for disposal. Wash area with soap and water.

个人预防： 戴合适 PPE。疏散区域并确保通风。

环境预防： 防止进入排水沟或水道。

遏制和清理方法： 用惰性材料（如沙子、蛭石）吸收，并置于合适容器中处置。用肥皂和水清洗区域。

SECTION 7: Handling and Storage / 第七节： 操作处置与储存

Handling: Handle in a well-ventilated area. Avoid contact with skin and eyes. Use PPE. Storage: Store in sealed containers under nitrogen, refrigerated, dry, away from light, oxidants, and alkalis. Keep in a cool, ventilated place.

Incompatible Materials: Oxidizers, strong bases.

操作： 在通风良好的区域操作。避免皮肤和眼睛接触。使用 PPE。

储存： 密封容器中，充氮冷藏，干燥避光，远离氧化剂和碱。置于凉爽、通风处。

不相容材料： 氧化剂、强碱。

SECTION 8: Exposure Controls/Personal Protection / 第八节： 接触控制/

个体防护 8.1 Control Parameters / 控制参数

No occupational exposure limit values established.

无职业接触限值确立。

8.2 Exposure Controls / 接触控制

Engineering Controls: Use explosion-proof ventilation equipment.

Personal Protective Equipment: Protective gloves (impermeable), clothing, eye protection (goggles), face protection. Respiratory protection if ventilation insufficient. 工程控制： 使用防爆通风设备。

个人防护设备： 防护手套（不透水）、衣物、护目镜、面罩。如果通风不足，使用呼吸防护。

SECTION 9: Physical and Chemical Properties / 第九节：理化特性

Appearance: Near colorless to pale yellow liquid.

Odor: Slightly unpleasant.

Boiling Point: 477.2 ± 45.0 °C (predicted).

Density: 1.067 ± 0.06 g/cm³ (predicted).

Solubility: No data available (likely soluble in organic solvents).

Flash Point: No data available.

Vapor Pressure: No data available.

pH: Not applicable.

外观：近无色至浅黄色液体。

气味：略不愉快。

沸点： 477.2 ± 45.0 °C (预测)。

密度： 1.067 ± 0.06 g/cm³ (预测)。

溶解度：无数据可用（可能溶于有机溶剂）。

闪点：无数据可用。

蒸气压：无数据可用。

pH 值：不适用。

SECTION 10: Stability and Reactivity / 第十节：稳定性和反应性

Stability: Stable under recommended storage conditions.

Reactivity: May react with oxidizers and strong bases.

Hazardous Decomposition Products: Silicon oxides, carbon oxides.

Conditions to Avoid: Heat, light, moisture, incompatible materials.

稳定性：在推荐储存条件下稳定。

反应性：可能与氧化剂和强碱反应。

有害分解产物：硅氧化物、碳氧化物。

避免条件：热、光、水分、不相容材料。

SECTION 11: Toxicological Information / 第十一节：毒理学信息

11.1 Information on Toxicological Effects / 毒理学影响信息

Acute Toxicity: No data available.

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive Toxicity: No data available.

STOT - Single Exposure: No data available.

STOT - Repeated Exposure: No data available.

Aspiration Hazard: May be fatal if swallowed and enters airways (if classified).

Additional Information: To the best of knowledge, chemical, physical, and toxicological properties have not been thoroughly investigated.

急性毒性：无数据可用。

皮肤腐蚀/刺激：引起皮肤刺激。

严重眼损伤/刺激：引起严重眼睛刺激。

呼吸或皮肤致敏：无数据可用。

生殖细胞致突变性：无数据可用。

致癌性：无数据可用。

生殖毒性：无数据可用。

特定靶器官毒性 - 单次接触：无数据可用。

特定靶器官毒性 - 重复接触：无数据可用。

吸入危害：吞咽并进入呼吸道可能致命（如果分类）。

额外信息：据所知，化学、物理和毒理学特性尚未彻底调查。

SECTION 12: Ecological Information / 第十二节：生态学信息

Ecotoxicity: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Handle to minimize environmental release.

生态毒性：无数据可用。

持久性和降解性：无数据可用。

生物蓄积潜力：无数据可用。

土壤迁移性：无数据可用。

处理时最小化环境释放。

SECTION 13: Disposal Considerations / 第十三节：废弃处置

Disposal Methods: Dispose of in accordance with local, state, and federal regulations.

Incinerate or send to licensed waste facility. Do not discharge into environment.

处置方法：按照当地法规处置。焚烧或送至许可废物设施。不要排放到环境中。

SECTION 14: Transport Information / 第十四节：运输信息

14.1 UN Number / UN编号

UN 1993 (Flammable liquids, n.o.s. - if classified as flammable).

UN 1993 (易燃液体，未另作规定 - 如果分类为易燃)。

14.2 UN Proper Shipping Name / UN正确运

输名称 Flammable liquid, n.o.s. (BCB Monomer)

易燃液体，未另作规定 (BCB 单体)

14.3 Transport Hazard Class / 运输危害类别

3 (Flammable liquids - if

applicable) 3 (易燃液体 - 如果适用)

14.4 Packing Group / 包

装组 III

III

14.5 Environmental Hazards / 环境危害

Not classified as marine pollutant / 未分类为海洋污染物。

14.6 Special Precautions / 特殊预防措施

Transport in accordance with DOT/IATA/IMDG regulations. 按 DOT/IATA/IMDG法规运输。

SECTION 15: Regulatory Information / 第十五节：法规信息

This substance is subject to regulations such as OSHA HCS (29 CFR 1910), TSCA, REACH, and GHS. It may be listed on inventories like EINECS, TSCA. Check local regulations for compliance.

该物质受 OSHA HCS (29 CFR 1910)、TSCA、REACH 和 GHS 等法规管辖。可能列于 EINECS、TSCA 等清单。请检查本地法规以确保合规。

SECTION 16: Other Information / 第十六节：其他信息

16.1 Revision Information / 修订信息

Creation Date: August 21, 2025 (based on current compilation). This

SDS is for informational purposes only and should not be used as a

substitute for professional advice. Refer to the latest vendor SDS for updates.

创建日期：2025年8月21日（基于当前编制）。本SDS仅供信息参考，不应替代专业建议。请参考最新供应商SDS以获取更新。

16.2 NFPA 704 Rating / NFPA 704评级

Health: 0

Fire: 3

Reactivity: 0

Special Hazard: None

健康：0

火灾：3

反应性：0

特殊危害：无

Sources: Compiled from supplier data, related product SDS and general chemical safety knowledge. "No data available" indicates lack of specific information; use

caution.

来源：来自供应商数据、相关产品SDS和一般化学安全知识，包括附件参考。“无数据可用”表示缺乏具体信息；使用时小心。

Disclaimer / 免责声明: The information in this SDS is believed to be correct but is not warranted. Users should verify data for their specific use. 本SDS中的信息被认为正确，但不予保证。用户应为其特定用途验证数据